



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Berkcan et al.

Serial No.: 10/026,151

Filed: December 19, 2001

For: RESIDENTIAL ELECTRICITY METER

Art Unit: 2829

Examiner: Nguyen, Jimmy

AMENDMENT

Mail Stop NON-FEE AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Office Action dated May 8, 2003, please amend the above-identified patent application as follows:

IN THE CLAIMS:

Please cancel Claims 5, 15, and 25.

1. (once amended) A current sensor for an apparatus, said current sensor comprising a conductor comprising a slit and a plurality of Hall effect devices inserted at least partially within said slit, said conductor is configured to generate a magnetic field having a pre-determined shape, each said Hall effect device configured to detect said pre-determined shape and generate an output.

10. (once amended) A current sensor for an apparatus comprising a slit and a plurality of Hall effect devices inserted at least partially within said slit, said conductor is configured to generate a magnetic field comprising at least a first magnetic field component having a first direction and a second magnetic field component having a second direction different from said first direction, and a pre-determined shape, each said Hall effect device configured to detect said pre-determined shape and generate an output.

11. (once amended) A residential electricity meter comprising a voltage sensor and a current sensor, said current sensor comprising a conductor comprising a slit and

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7/10/03

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